

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	09/623,922
Filing Date	August 31, 2001
First Named Inventor	Papadopoulos, Vassilios
Group Art Unit	1647
Examiner Name	Dang, Ian

Sheet 1 of 3

Attorney Docket No: 1941.017US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
/I.D./	US-20030157095A1	08/21/2003	Papadopoulos, V.	03/25/1998
	US-20060106202A1	05/18/2006	Papadopoulos, V., et al.	01/13/2006
	US-5,350,836	09/27/1994	Kopchick, J. J., et al.	05/04/1992
	US-5,948,676	09/07/1999	Chang, Y., et al.	10/10/1996

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T <sup>2</sup>
/I.D./	WO-0001821A2	01/13/2000	Lal, P., et al.	
	WO-0009549A2	02/24/2000	Papadopoulos, V.	
	WO-9503325	02/02/1995	Lehrer, Robert L., et al.	
	WO-9718826	05/29/1997	Chang, Conway C., et al.	
	WO-9946389	09/16/1999	Goldenberg, David M., et al.	
	WO-9946575	09/16/1999	Papadopoulos, V.	
	WO-9949316A2	09/30/1999	Papadopoulos, V., et al.	

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

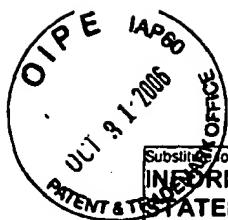
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		<del>"Extended European Search Report and communication - Application No. 06076502.2 - 1223, (September 29, 2006), 9 pgs</del>	
		<del>"International Search Report in PCT/US 99/05653", 5 Pages</del>	
		<del>BOYLE, T. P., "Structure of the murine gene encoding apolipoprotein A-I", Gene 117(2) (August 1992), 243-247</del>	
		<del>COLLES, S. M., et al., "Cholesterol interaction with recombinant human sterol carrier protein-2", Lipids, 30(9), (1995), 795-803</del>	
		<del>EVER, L., et al., "Two alternatively spliced Meig1 messenger RNA species are differentially expressed in the somatic and in the germ-cell compartments of the testis", Cell Growth Differ., 10(1), (January 1999), 19-26</del>	
		<del>FARGES, R., "Site-directed mutagenesis of the peripheral benzodiazepine receptor: identification of amino acids implicated in the binding site of Ro5 4864", Mol. Pharmacol., 46(6), (December 1994), 1160-7</del>	
		<del>GALIEGUE, S., et al., "Cloning and Characterization of PRAX-1 - A New Protein that Specifically Interacts with the Peripheral Benzodiazepine Receptor", The Journal of Biological Chemistry, 274(5), (January 1999), 2938-2952</del>	
		<del>GARNIER, et al., "In vitro reconstitution of a functional peripheral-type benzodiazepine receptor from mouse Leydig tumor cells", Molecular Pharmacology, 45, (1994), 201-211</del>	
		<del>GLENNEY, J. R., "The sequence of human caveolin reveals identity with VIP21, a component of transport vesicles.", FEBS Letters, 314(1), (December 1992), 45-48</del>	

EXAMINER

/Ian Dang/

DATE CONSIDERED

06/13/2007



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  
**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Complete if Known

Application Number	09/623,922
Filing Date	August 31, 2001
First Named Inventor	Papadopoulos, Vassilios
Group Art Unit	1647
Examiner Name	Dang, Ian

Sheet 2 of 3

Attorney Docket No: 1941.017US1

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

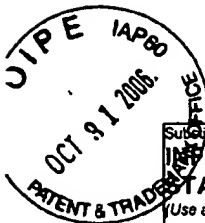
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HARDER, T, et al., "Specific release of membrane-bound annexin II and cortical cytoskeletal elements by sequestration of membrane cholesterol", <u>Mol Biol Cell.</u> 8(3), (1997),533-45	
		HARDWICK, M., et al., "Abstract #1569 The Peripheral-type Benzodiazepine Receptor in Human Breast Cancer", <u>Proceedings of the American Association for Cancer Research</u> , 38, (April 1997),233	
		HARDWICK, M., "Peripheral-Type Benzodiazepine Receptor (PBR) in Human Breast Cancer: Correlation of Breast Cancer Cell Aggressive Phenotype with PBR Expression, Nuclear Localization, and PBR-mediated Cell Proliferation and Nuclear Transport of Cholesterol", <u>Cancer Research</u> , 59(4), (1999),831-842	
		HORINOUCHI, S, et al., "Cloning, nucleotide sequence, and transcriptional analysis of the NAD(P)-dependent cholesterol dehydrogenase gene from a Nocardia sp. and its hyperexpression in Streptomyces spp.", <u>Appl Environ Microbiol.</u> , 57(5), (1991),1386-1393	
		ISHIZAKI, T, et al., "Nucleotide sequence of the gene for cholesterol oxidase from a Streptomyces sp", <u>Journal of Bacteriology</u> , (1991) 596-601	
		JOSEPH-LIAUZUN, EVELYNE, et al., "Topological analysis of the peripheral benzodiazepine receptor in yeast mitochondrial membranes supports a five- transmembrane structure", <u>J Biol Chem.</u> , 273(4), (January1998),2146-52	
		KAI, M, et al., "Synchronous circadian rhythms of mRNA levels and activities of cholesterol 7 alpha hydroxylase in the rabbit and rat", <u>Journal of Lipid Research</u> , 36, (1995),367-374	
		KOZIKOWSKI, A. P., et al., "Synthesis and Biology of a 7-Nitro-2,1,3-benzoxadiazol-4-yl Derivative of 2-Phenylindole-3-acetamide: A Fluorescent Probe for the Peripheral-Type Benzodiazepine Receptor", <u>Journal of Medicinal Chemistry</u> , 40(16), (1997),2435-2439	
		KRUEGER, K. E., "Peripheral-type Benzodiazepine Receptors Mediate Translocation of Cholesterol from Outer to Inner Mitochondrial Membranes in Adrenocortical Cells", <u>The Journal of Biological Chemistry</u> , 265(25), (1990),15015-15022	
		LI, H., et al., "M. musculus peripheral benzodiazepine receptor associated protein", <u>Database EMBL [Online] AC AF022770</u> , (October 1997),1 page	
		LI, H., "Peripheral-type benzodiazepine receptor function in cholesterol transport. Identification of a putative cholesterol recognition/interaction amino acid sequence and consensus pattern", <u>Endocrinology</u> , 139(12), (1999),4991-4997	
		LIU, JUN, et al., "Molecular cloning, chromosomal localization of human peripheral-type benzodiazepine receptor- and protein kinase A regulatory subunit type 1A (PRKAR1A)- associated protein PAP7 and studies in PRKAR1A mutant cells and tissues", <u>The FASEB Journal</u> , express article 10.1096/fi.02-1066fje, (April 2003),27 pgs.	
		MIETTINEN, H., "Expression of peripheral-type benzodiazepine receptor and diazepam binding inhibitor in human astrocytomas: relationship to cell proliferation", <u>Cancer Research</u> , 55(12), (June 15, 1995),2691-2695	
		MURATA, M., et al., "VIP21/caveolin is a cholesterol-binding protein", <u>Proc Nat Acad Sci</u> , 92(22), (1995),10339-10343	

EXAMINER

/Ian Dang/

DATE CONSIDERED

06/13/2007



Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	Complete if Known	
	Application Number	09/623,922
	Filing Date	August 31, 2001
	First Named Inventor	Papadopoulos, Vassilios
	Group Art Unit	1647
	Examiner Name	Dang, Ian
Sheet 3 of 3		Attorney Docket No: 1941.017US1

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
		NILSSON, J, et al., "cDNA cloning of human-milk bile-salt-stimulated lipase and evidence for its identity to pancreatic carboxylic ester hydrolase", <u>European Journal of Biochemistry</u> , 192(2), (1990),543-550	
		PAPADOPOULOS, V., et al., "CHOLESTEROL RECOGNITION SEQUENCE", <u>US Patent Application Ser. No. 09/623,922</u> , filed September 11, 2000	
		PAPADOPOULOS, V., et al., "PERIPHERAL-TYPE BENZODIAZEPINE RECEPTOR: A TOOL FOR DETECTION, DIAGNOSIS, PROGNOSIS, AND TREATMENT OF CANCER", <u>US Patent Application Ser. No. 09/646,932</u> , filed September 25, 2000	
		PAPADOPOULOS, V., "Peripheral-type benzodiazepine/diazepam binding inhibitor receptor: biological role in steroidogenic cell function", <u>Endocrine Review</u> , 14(2), (1993),222-240	
		PAPADOPOULOS, V., "Structure and function of the peripheral-type benzodiazepine receptor in steroidogenic cells", <u>Proceedings of the Society for Experimental Biology &amp; Medicine</u> , 217(2), (February 1998),130-142	
		PAPADOPOULOS, V., et al., "Targeted Disruption of the Peripheral-Type Benzodiazepine Receptor Gene Inhibits Steroidogenesis in the R2C Leydig Tumor Cell Line", <u>The Journal of Biological Chemistry</u> , 272(51), American Society of Biological Chemists, Baltimore, (December 1997),32129-22135	
		PAPADOPOULOS, VASSILIOS, et al., "The Peripheral-type Benzodiazepine Receptor Is Functionally Linked to Leydig Cell Steroidogenesis", <u>Journal of Biological Chemistry</u> 265(7), (March 1990),3772-3779	
		PAPE, M E., et al., "Tissue specific changes in acyl-CoA: cholesterol acyltransferase (ACAT) mRNA levels in rabbits", <u>Journal of Lipid Research</u> , 36(4), (1995),823-838	
		PIKULEVA, IRINA A., "Active-site topology of bovine cholesterol side-chain cleavage cytochrome P450 (P450scc) and evidence for interaction of tyrosine 94 with the side chain of cholesterol", <u>Archives of Biochemistry and Biophysics</u> , 322(1), (September 1995),189-97	
		PORTER, J A., et al., "Cholesterol modification of hedgehog signaling proteins in animal development", <u>Science</u> , 274(5285), (1996),255-9	
		STOCCO, D M., et al., "Regulation of the acute production of steroids in steroidogenic cells", <u>Endocr Rev.</u> , 17(3), (1996),221-44	
		SU, P, "A cDNA encoding a rat mitochondrial cytochrome P450 catalyzing both the 26-hydroxylation of vitamin D3: gonadotropic regulation of the cognate mRNA in ovaries", <u>DNA and Cell Biology</u> 9(9), (November 1990),657-67	
		TAKETANI, S, et al., "Induction of peripheral-type benzodiazepine receptors during differentiation of mouse erythroleukemia cells. A possible involvement of these receptors in heme biosynthesis", <u>Journal of Biological Chemistry</u> , (1994),7527-7531	

EXAMINER	/Ian Dang/	DATE CONSIDERED	06/13/2007
----------	------------	-----------------	------------

Substitute Disclosure Statement Form (PTO-1449)  
\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

<b>Application Number</b>	09/623,922
<b>Filing Date</b>	August 31, 2001
<b>First Named Inventor</b>	Papadopoulos, Vassilios
<b>Group Art Unit</b>	1647
<b>Examiner Name</b>	Dang, Ian

Sheet 1 of 1

Attorney Docket No: 1941.017US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
/I.D./	US-5,834,596	11/10/1998	Ageland, Hans , et al.	07/17/1997
	US-5,876,968	03/02/1999	Sirtori, , et al.	11/04/1993
	US-5,990,081	11/23/1999	Ageland, Hans , et al.	08/05/1998
	US-6,004,925	12/21/1999	Dasseux,	09/29/1997
	US-6,329,341	12/11/2001	Dasseux, , et al.	12/01/1999
	US-6,376,464	04/23/2002	Dasseux, , et al.	12/01/1999
	US-6,573,239	06/03/2003	Dasseux, , et al.	12/01/1999
	US-6,602,854	08/05/2003	Dasseux, , et al.	12/01/1999
	US-6,617,134	09/09/2003	Sirtori, , et al.	03/01/1999
	US-6,630,450	10/07/2003	Dasseux, , et al.	12/01/1999
	US-6,716,816	04/06/2004	Dasseux, , et al.	12/01/1999
	US-6,753,313	06/22/2004	Dasseux, , et al.	12/01/1999
	US-6,953,840	10/11/2005	Zhu, Lingyu , et al.	07/29/2003
↓	US-7,189,689	03/13/2007	Dasseux, , et al.	03/15/2002

**OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/I.D./		STN Accession No. 91083838,	
/I.D./		STN Accession No. 122: 122952,	

EXAMINER

/Ian Dang/

DATE CONSIDERED

06/13/2007

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached